

Docket No.: 4590-564

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :  
 :  
 Bernard DUBORG : Confirmation No.  
 :  
 U.S. Patent Application No. *not yet assigned* :  
 :  
 Filed: *herewith* :

For: OPTOELECTRONIC TAXI-ASSISTANCE SAFETY DEVICE FOR AIRCRAFT

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed with the application and no certification or fee is required.

Please note this is a PCT application in the entry of the National Phase in the U.S. and copies of the references cited were transmitted by WIPO and are believed to be in the file of the above-identified application and readily available to the Examiner. Therefore it is believed that Applicants have met all requirements regarding duty of disclosure under 37 CFR 1.56. A copy of the foreign search report is attached for the Examiner's information. Acknowledgement and consideration of these documents are respectfully requested.

Respectfully submitted,  
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## TURN ANTICIPATION CUE FOR DIRECTING VEHICLE GROUND OPERAT

Patent number: WO9904304  
 Publication date: 1999-01-28  
 Inventor: JOHNSON WALTER A (US)  
 Applicant: FLIGHT DYNAMICS (US); JOHNSON WALTER A (US)  
 Classification:  
 - International: G02B27/01; G02B27/00; G02B27/01; G02B27/00;  
 (IPC1-7): G02B27/14; H04N7/00; H04N7/18  
 - european: G02B27/01; G02B27/01A  
 Application number: WO1998US14177 19980710  
 Priority number(s): US19970052514P 19970714

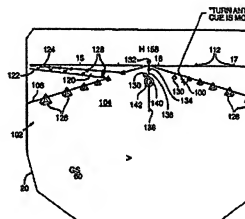
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## Abstract of WO9904304

A turn anticipation cue (100) is displayed as a symbol on a head-up display (HUD) system (10) combiner (20) as part of aircraft roll-out on an active runway and taxi operations to and from an airport terminal. The turn anticipation cue alerts the pilot that a turn from the current path of the aircraft is approaching within a predetermined time or distance. Display of the turn anticipation cue informs the pilot of an impending turn before the aircraft reaches the actual point on the runway or taxiway (120) where the turn should be initiated. The timing of the moment to initiate a desired turn is evident to the pilot by movement of the turn anticipation cue toward a ground reference symbol (142) displayed on the combiner, which symbol is a representation of the current aircraft location and heading. An indication of the magnitude of the impending commanded turn rate is also evident to the pilot by the rate of movement of the turn anticipation cue on the combiner. The direction of the turn is indicated by the direction of motion of the turn anticipation cue and by an arrow (144) pointing in the direction of the turn.



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